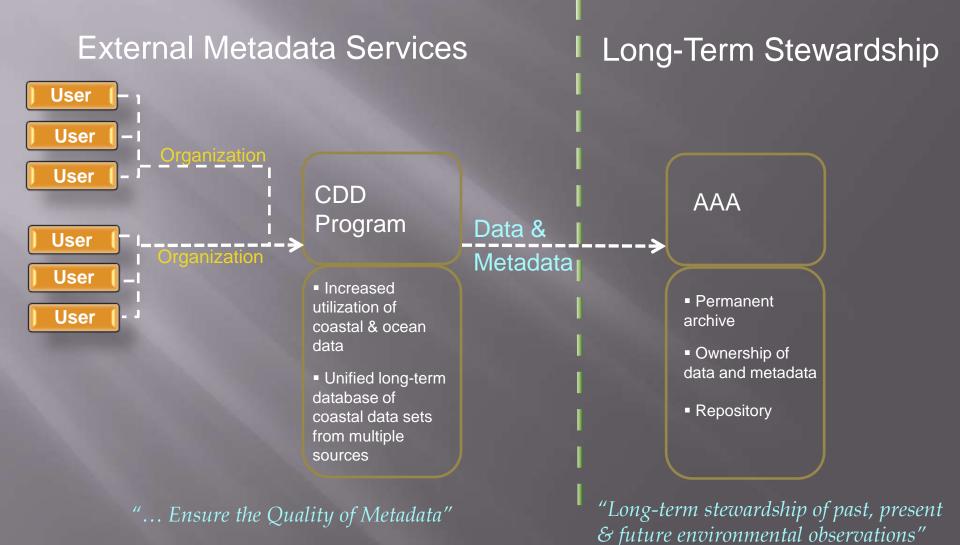
MERMAid

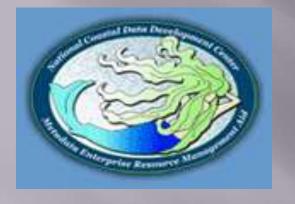
National Coastal Data Development Center's Metadata Enterprise Resource Management Aid

Overview

- Perspectives
- Background
- User Community
- MERMAid 2.0
- New Data Entry Interfaces
- Architecture
- Services

Two Perspectives within NESDIS Data Architecture





Background

- Remote web access
- Accounts can be distributed to organizations external to NOAA
- No licensing fees
- Ability to support multiple profiles
- Full feature validation
- Hierarchy to support multiple record collections from variety of customers
- · Publish metadata to several external destinations

User Community

- Over 500 user accounts
 - NOAA 5 Line Offices and 20+ activities
 - USGS
 - Bureau of Land Management
 - US Army Corps of Engineers
 - US Navy
 - NASA
 - Gulf of Mexico Alliance
 - 30 universities, schools and laboratories
 - States Agencies: AK, AL, AZ, FL, LA, MA, MS, TX
 - Non-Governmental Organizations
 - Private Industry and Individuals
 - International (mainly from universities and labs)
 - and more ...

Metadata Enterprise Resource Management Aid (MERMAid 2.0)





REST <XML/> <XML/>

XRX - MERMAid. 2.0

REST

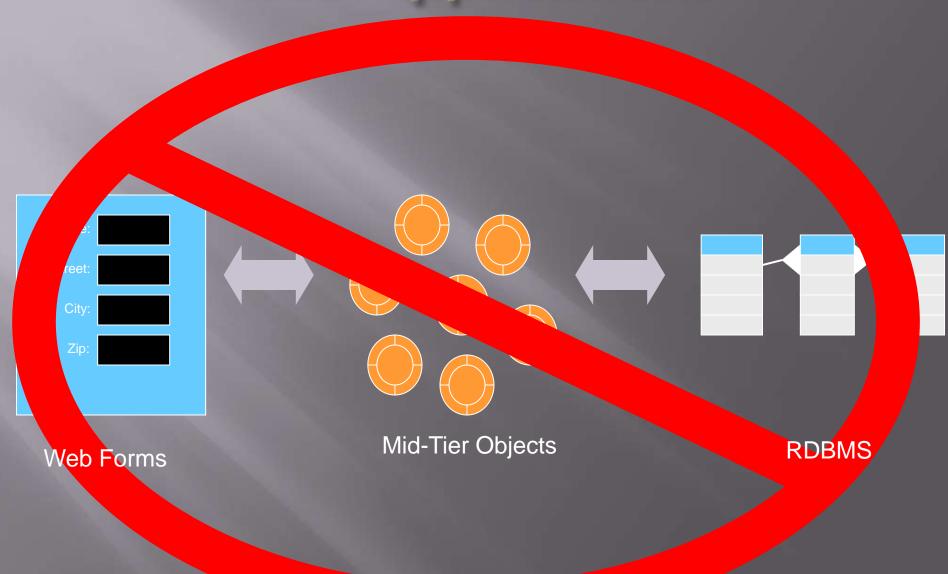
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Native XML Database

Web Applications



XSLT Processor

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3
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4
F
        <p:param name="instance" type="input"/>
R
7 ▽
        <p:processor name="oxf:xslt-2.0">
            <p:input name="config" href="#instance#xpointer(/methodCall/xslt/xsl:stylesheet)"/>
            <p:input name="data" href="#instance#xpointer(/methodCall/thexml/*)"/>
Я
40.
            <p:output name="data" id="transformedXML"/>
11
        12
13 ▽
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14
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15
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16
       </p:config>
```

Native XML Database

```
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    <head>
        <xf:model>
        <xf:/model>
        <head>
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        <xf:input>
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```

XFORMS

REST



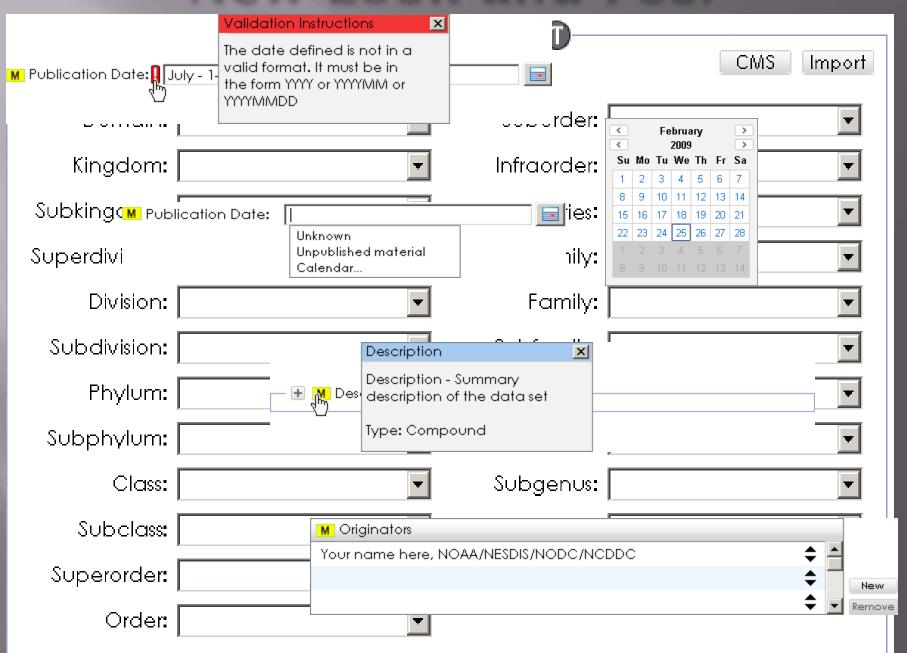
Native XML Database

Many small vs. One Large

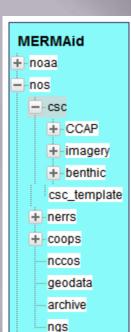
CSS **XForms** XLink **XPath** VS. XQuery XML Schema Schematron



New Look and Feel



New Look and Feel





nos/csc

Title	Status	Size	Date Saved Last
CCAP	nos/csc	Size here	August 20, 2009
i benthic	nos/csc	Size here	August 20, 2009
imagery	nos/csc	Size here	August 20, 2009
csc_template	Status Here	24	August 20, 2009

| Change ID | Delete | Cut | Copy | Prune | Select All

Return to Main Preferences Support Log Out

FWC



Services Promoting Flexibility and Collaboration

-<abstract>

A Tucker-trawl survey along the upper bay axis was conducted to collect ichthyoplanistor and zooplankton samples. At each station, a 1-m2 mouth opening Tucker trawl with 280-um mesh net was fished for 2-minutes in the bottom, mid-depth, and surface layers to provide three depth-discrete samples. Seven stations were sampled on 9-10 October for a total of 21 samples. Additional Tucker-trawl samples were collected during the first 26 hour time series (8-9 October, see below). Ctenophores (Mnemiopsis leidy) were collected throughout the study area.

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Point and Vector Object Information:

A selection must be made between the Point and Vector Object Information or the Raster Object Information elements. Determine which element best describes the data and delete the other(s) using the Manage Compounds Service Tab.

SDTS Terms Description:

A selection must be made between the SDTS Terms Description or the VPF Terms Description elements. Determine which element best describes the data and delete the other(s) using the Manage Compounds Service Tab.

SDTS_Point_and_Vector_Object_Type;

This is a mandatory element.

VPF Terms Description:

A selection must be made between the SDTS Terms Description or the VPF Terms Description elements. Determine which element best describes the data and delete the other(s) using the Manage Compounds Service Tab.

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This is a mandatory element.

VPF Point and Vector Object Information:

VPF_Point_and_Vector_Object_Type:

This is a mandatory element.

Promoting Flexibility and Collaboration

-<abstract>

A Tucker-trawl survey along the upper bay axis was conducted to collect ichthyoplanitor and zooplankton samples. At each station, a 1-m2 mouth opening Tucker trawl with 280-µm mesh net was fished for 2-minutes in the bottom, mid-depth, and surface layers to provide three depth-discrete samples. Seven stations were sampled on 9-10 October for a total of 21 samples. Additional Tucker-trawl samples were collected during the first 26 hour time series (8-9 October, see below). Ctenophores (Mnemiopsis leidyi) were collected throughout the study area.

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A Tucker-trawl survey along the upper bay axis was conducted to collect ichthyoplankton and zooplankton samples. At each station, a 1-m2 mouth opening Tucker trawl with 280-µm mesh net was fished for 2-minutes in the bottom, mid-depth, and surface layers to provide three depth-discrete samples. Seven stations were sampled on 9-10 October for a total of 21 samples. Additional Tucker-trawl samples were collected during the first 26 hour time series (8-9 October, see below). Ctenophores (Mnemiopsis leid) were collected throughout the study area.

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Survey conducted to collect ichthyoplantion and zooplankton samples. -

Promoting Flexibility and Collaboration

-<abstract>

A Tucker-trawl survey along the upper bay axis was conducted to collect ichthyoplanktor and zooplankton samples. At each station, a 1-m2 mouth opening Tucker trawl with 280-µm mesh net was fished for 2-minutes in the bottom, mid-depth, and surface layers to provide three depth-discrete samples. Seven stations were sampled on 9-10 October for a total of 21 samples. Additional Tucker-trawl samples were collected during the first 26 hour time series (8-9 October, see below). Ctenophores (Mnemiopsis leidyi) were collected throughout the study area.

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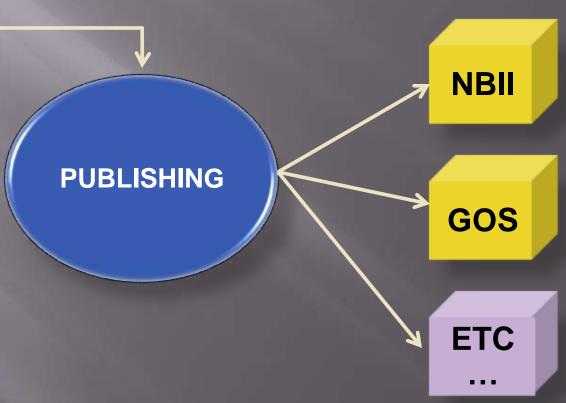
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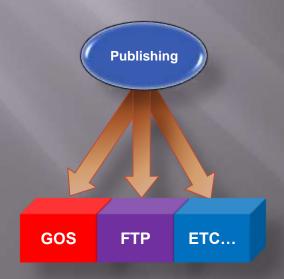
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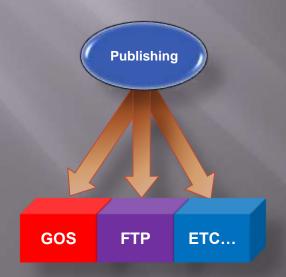


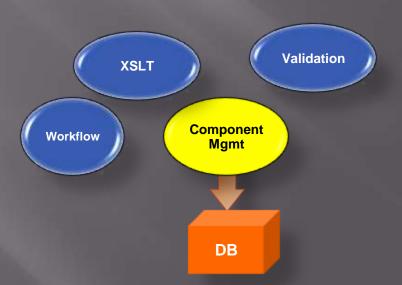




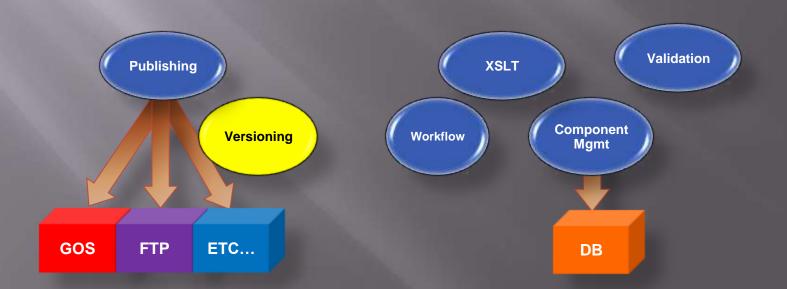






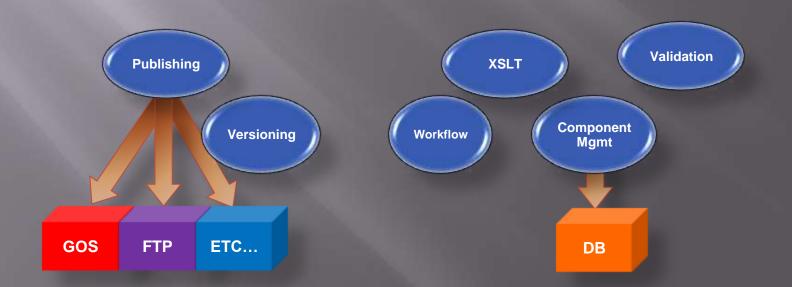






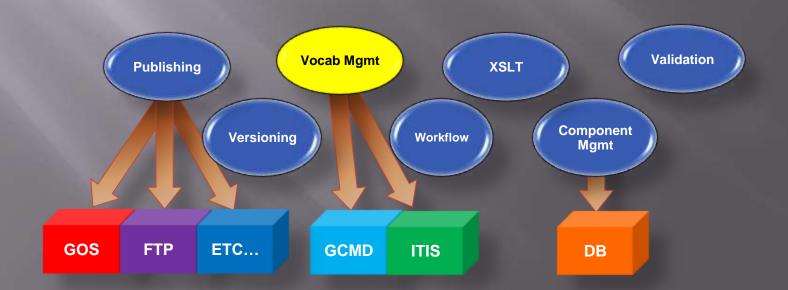


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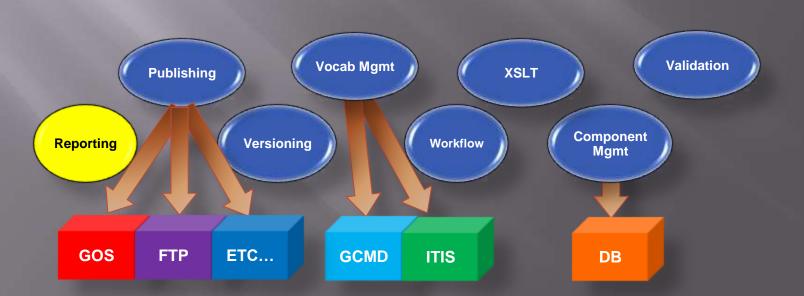






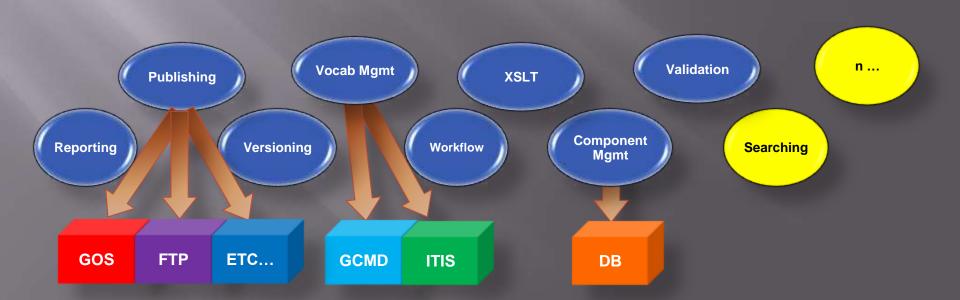




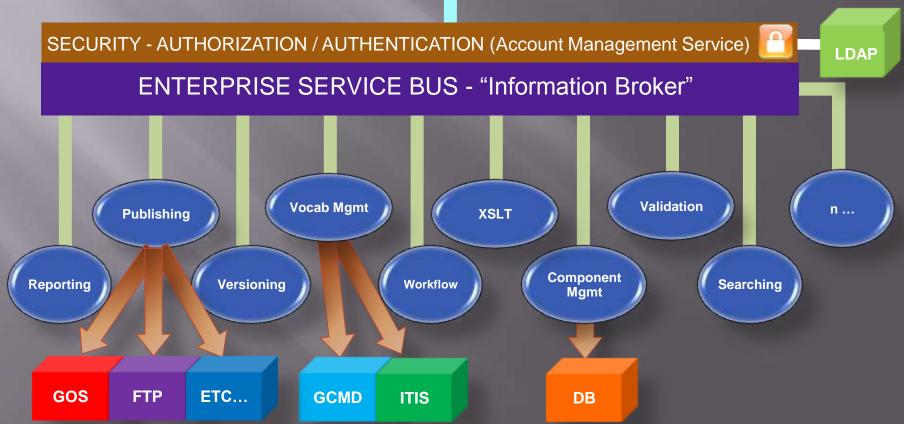


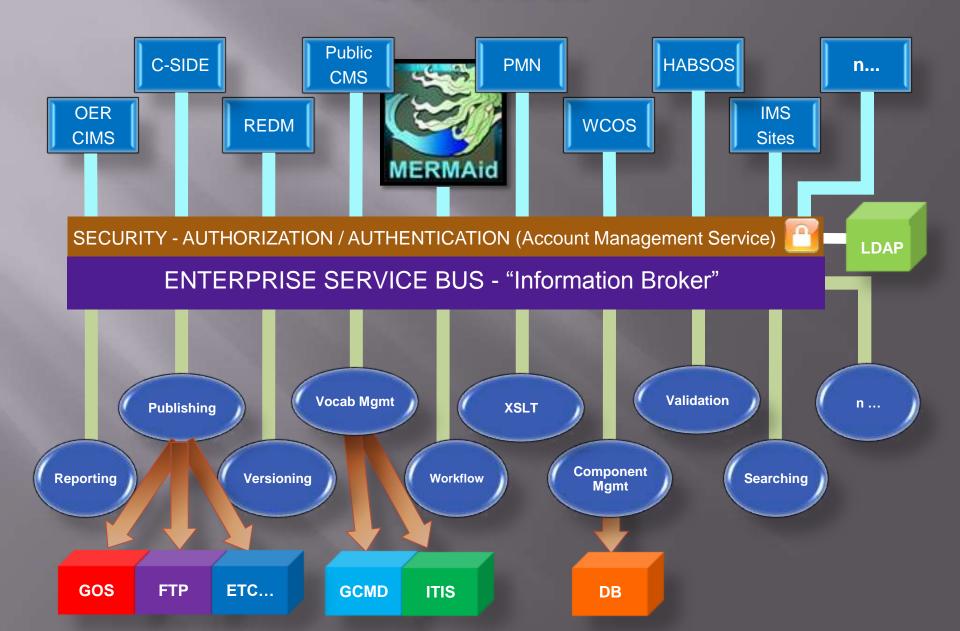


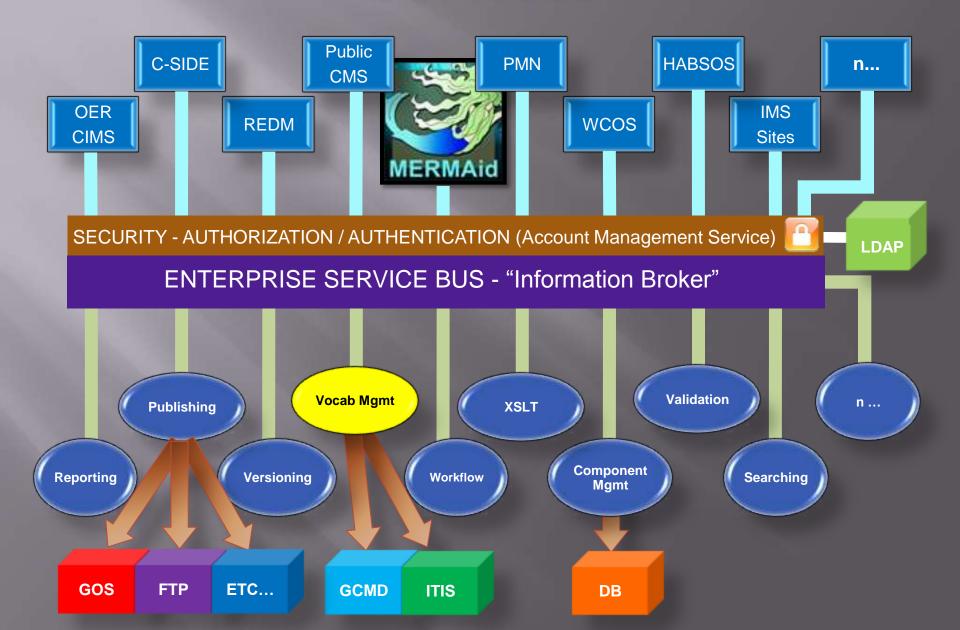
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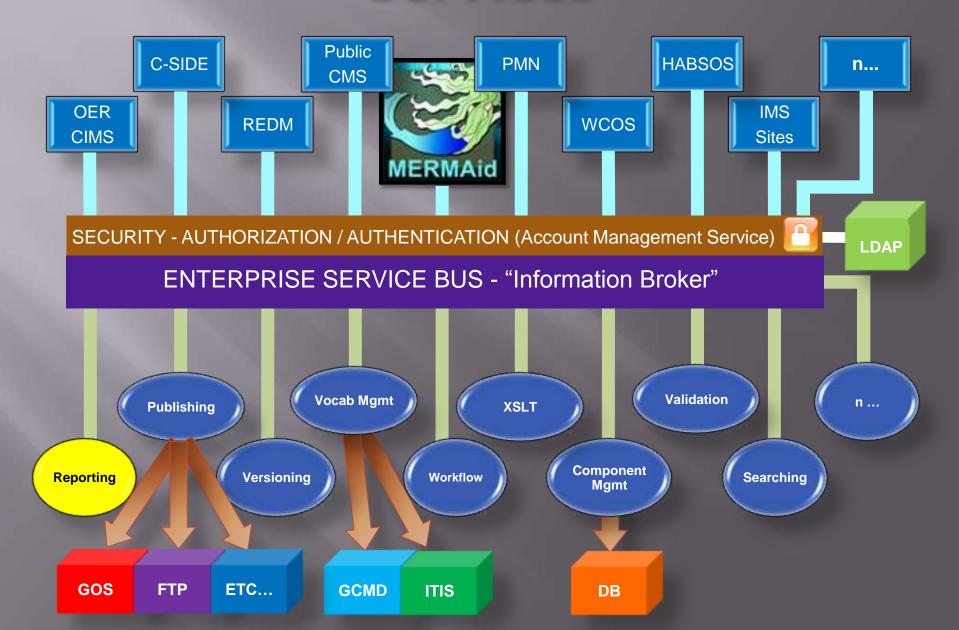




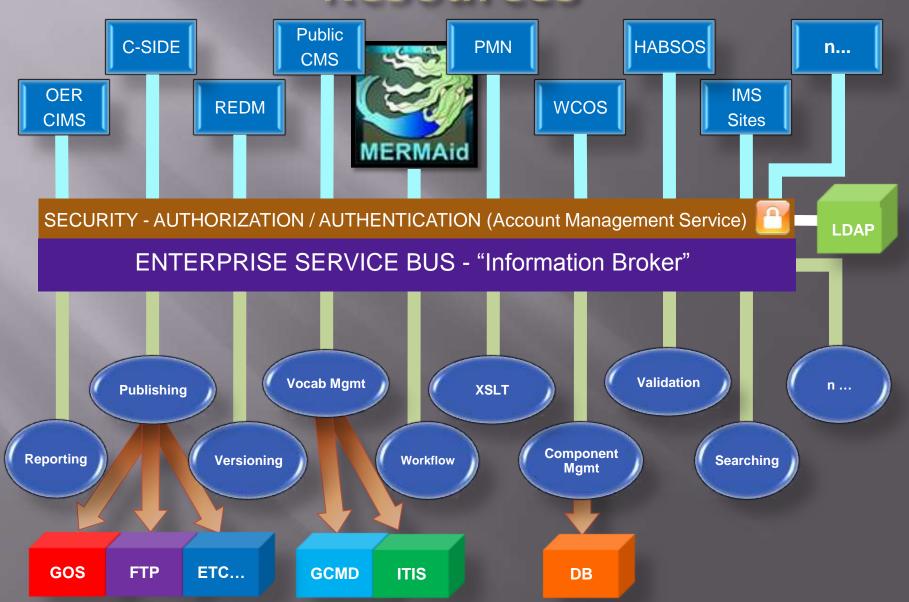




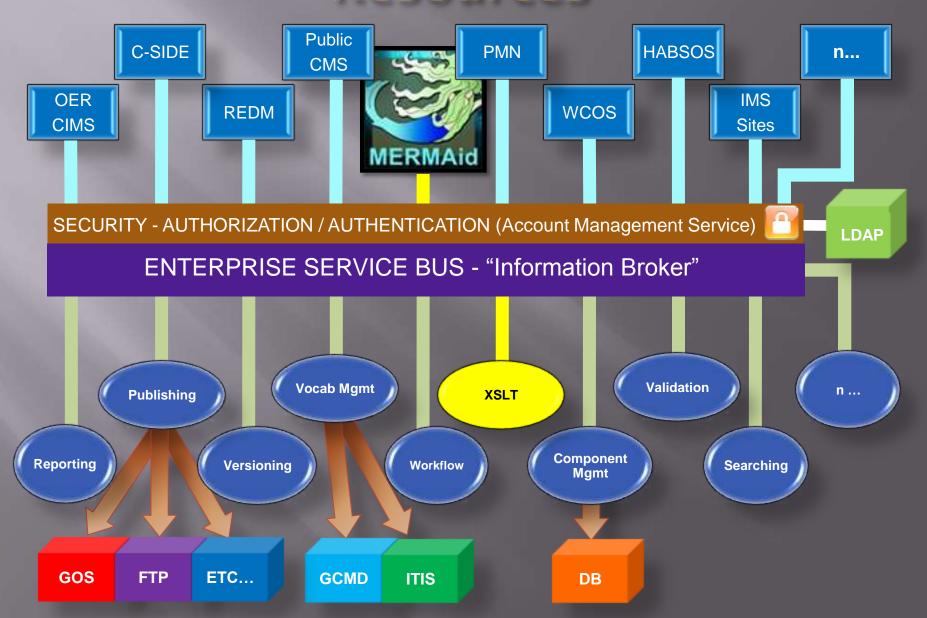




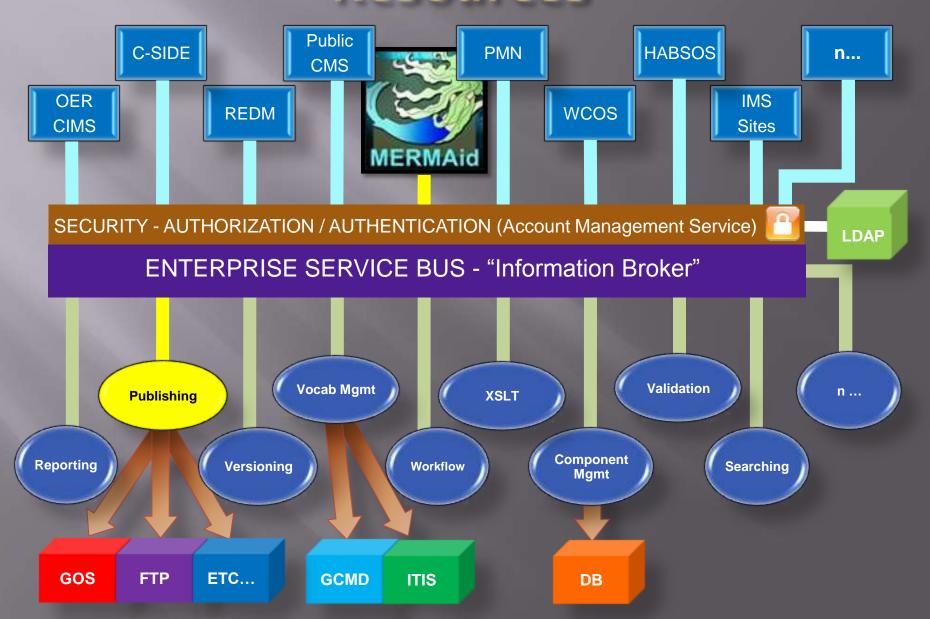
Louisiana Department of Natural Resources



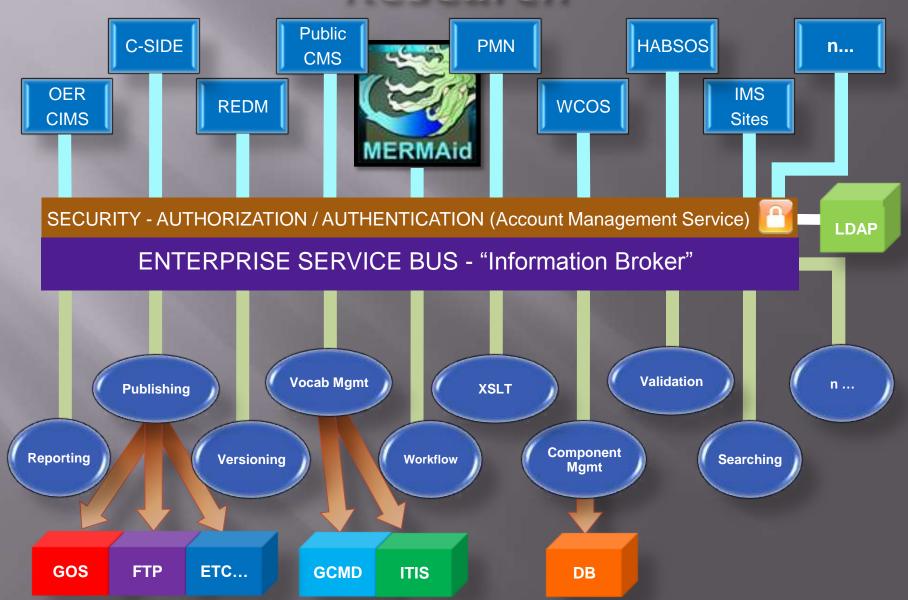
Louisiana Department of Natural Resources



Louisiana Department of Natural Resources



Office of Ocean Exploration and Research



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- Profile support: FGDC Standard,
 Biological, Shoreline, Remote
 Sensing, ISO 19115, NAP Profile,
 EML, Sensor ML
 Output support: XML, HTML, Text,
 Tabbed, FAQ, MARC
 Ability to convert between all
 supported profiles
 - Ability to publish to multiple data sources (GOS, NBII, REDM, NOS Data Explorer, etc.)
- Versioning of recordsWebDav support
- Search and replace
- Reporting (customized report capability)
- Distributed system
- Standalone version

Centrally managed elements
 (contacts, distribution information, etc.)

Enhanced user interface controls

- Ability to preserve formatting in data entry fieldsDirect integration with externally
- managed vocabulariesExternal APIs for communication with
 - external APIS for communication with external applications such as OER's CIMS, REDM, etc.

 Taxonomic hierarchy service
- Distributed instances
- Unique document identifier
- Customized templates
- User preferences to manage customizable settings
- Account management and reporting service
- Record review management screens
- Viewable workflow history
- Link management service
- Graphical view of geospatial information

The Metadata Enterprise

